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Patent & Utility Model Concordance

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PATENT ABSTRACTS OF JAPAN

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(71)Applicant : FUJI XEROX CO LTD

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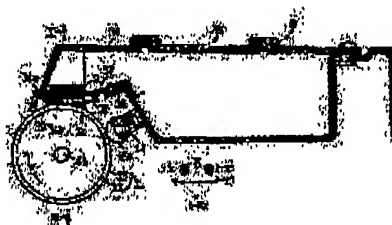
(72)Inventor : OIKE HIDEAKI

(54) IMAGE FORMING DEVICE AND PROCESS CARTRIDGE THE DEVICE FOR

(57)Abstract:

PROBLEM TO BE SOLVED: To prevent the photoreceptive coating film on the surface of an image carrier from being worn because it is brought into contact with the edge of an electrifying roll and to prevent image quality from deteriorating and to prevent the service life of the image carrier from being shortened because a surface layer is worn or damaged.

SOLUTION: This image forming device is equipped with an image carrier 21 provided with a rotating and moving endless image carrier base material 22 and a photoreceptive coating film 23 formed at the surface of the base material 22 and constituted so that the film 23 is provided with a uniform coating film area at the central part in the width direction and a non-uniform coating film area formed at both end parts in the width direction, the electrifying roll 24a which is brought into contact with the surface of the carrier 21 so as to electrify it while being rotated, whose width is smaller than that of the carrier 21, whose outside diameter of both end parts is reduced as it is advanced to the outside end and which is arranged so that the positions of both ends brought into contact with carrier 1 become the nonuniform coating area, a latent image forming device 2 forming an electrostatic latent image at the electrified surface of the carrier 21 and a developing device developing the electrostatic latent image formed on the carrier 21 to a toner image.



LEGAL STATUS

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[JP,2000-321930,A]

CLAIMS DETAILED DESCRIPTION TECHNICAL
FIELD PRIOR ART EFFECT OF THE INVENTION
TECHNICAL PROBLEM MEANS OPERATION
EXAMPLE DESCRIPTION OF DRAWINGS DRAWINGS

[Translation done.]

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damages caused by the use of this translation.

- 1.This document has been translated by computer. So
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- 3.In the drawings, any words are not translated.

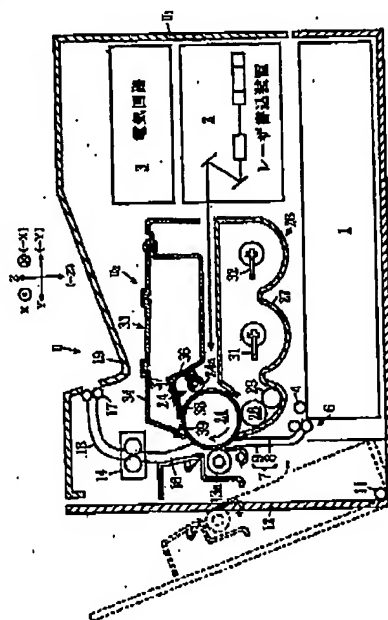
CLAIMS

[Claim(s)]

[Claim 1] Image formation equipment characterized by
providing the following The image support which has
the photo conductor paint film formed in the image
support base material of the shape of endless [to
rotate], and its front face, and has the uneven paint
film field where the aforementioned photo conductor
paint film was formed in the uniform paint film field
and the crosswise edge of a crosswise center section
The electrification roll arranged so that it may reduce
as it has width of face smaller than the width of face
of the aforementioned image support and the outer
diameter of an edge goes to an outer edge, while
electrifying the aforementioned image support body
surface, contacting the aforementioned image support
body surface and rotating, and the aforementioned
edge may counter the aforementioned uniform paint
film field of the aforementioned image support Latent-
image formation equipment which forms an
electrostatic latent image in the electrified image
support body surface The developer which develops
the electrostatic latent image on the aforementioned
image support in a toner image, and Imprint equipment
which imprints the toner image on the aforementioned
image support

[Claim 2] The process cartridge for image formation
equipments characterized by providing the following
The image support which has the photo conductor
paint film formed in the image support base material of
the shape of endless [to rotate], and its front face,
and has the uneven paint film field where the
aforementioned photo conductor paint film was formed
in the uniform paint film field and the crosswise edge
of a crosswise center section The developer develop
negatives to a toner image in the electrification roll
arranged so that it may reduce as it has width of face
smaller than the width of face of the aforementioned
image support and the outer diameter of an edge goes

Drawing selection [Representative drawing]



[Translation done.]